SUBJECT INDEX TO VOLUME 78

(ab) = abstract (E) = editorial

Abdomen, acute, significance of regional or reflex ileus in roentgen diagnosis of cholecystitis, perforated ulcer, pancreatitis and appendiceal abscess, as determined by survey examination of, 581

Abdominal aorta, coarctation of, at origin of inferior mesenteric artery; report of case diagnosed by translumbar aortography, 1003

Accidental puncture contaminated with Th^{227}, case of; studies on elimination and residual body activity (ab), 750

Adenoma, metastasizing thyroid, diagnosis of (ab), 740

Adrenal, large carcinoma of (ab), 560

Aebersold, Paul C., becomes assistant director of AEC Division of Civilian Application, 161

Agenesis of sacrum (ab), 932

Aging and osteoarthritis (ab), 181

Air embolism, fatal, during presacral insufflation of air (ab), 561

Albers-Schönberg's disease (generalized osteopetrosis of newborn) with adenopathy of Hodgkin's type (ab), 182

Alkaptonuria with ochronosis and arthritis (ab), 180

Allergic reactions and drug intolerance, distinction between; incipient chronic fluoride intoxication from drinking water (ab), 1100

American Board of Radiology elects officers, 353
  training requirements, 734

American College of Radiology, public relations and educational programs of (E), 728

American Radium Society, Annual Meeting of (E), 349

American Roentgen Ray Society, Commercial Exhibits, 1084
  Fifty-eighth Annual Meeting of (E), 151; (E), 1070
  Scientific Exhibits, 1075
  Section on Instruction, 354

Anatomic variations, four normal, of importance to radiologists, 89

Anemia, sickle-cell, bone infarcts in (ab), 932

Aneurysm of hepatic artery; roentgenologic features in one case, 270
  of renal artery, 267
  ophthalmic artery (ab), 1099
  true and false arteriosclerotic, of subclavian artery, 1007

Aneurysmal bone cyst (ab), 179; (ab), 931
  its roentgen diagnosis (ab), 178

Aneurysms arising at internal carotid-posterior communicating artery junction (ab), 1092
  renal artery, 256
  splenic artery; report of 17 cases showing calcification on plain roentgenograms (ab), 183
  subclavian arteriovenous, of traumatic origin, angiographic exploration of (ab), 933

Angiocardiographic observations; systolic residual blood in man (ab), 1094

Angiocardiography (ab), 182

Angiographic demonstration of primitive trigeminal artery (carotid-basilar anastomosis) (ab), 1100
  exploration of subclavian arteriovenous aneurysms of traumatic origin (ab), 933

Angiography, cerebral, in encephalo-trigeminal angiomatosis (ab), 565
  renal, radiologic diagnosis of renal tumors by (ab), 178

Ankylosing spondylarthritis, bone texture changes and destructive lesions in various stages of (ab), 930
  spondylitis (ab), 563
  spondylitis; its hormonal background in relation to roentgen-ray therapy (ab), 564

Anorexia nervosa, case of Lindau's disease simulating, 283

Antepartum diagnostic roentgenography, effect of, on white blood cell count of newborn infant (ab), 380

Aortography and pneumography in children (ab), 560
  significance of, in diagnosis of renal lesions (ab), 177
  with simultaneous bilateral arteriography of lower extremities (ab), 185

Appendiceal enterolith, calcified, significance of (ab), 926

Appendix, diverticula of (ab), 175; 679

Armillifer infection (porocephalosis) in man, roentgen diagnosis of (ab), 185

Arteria lusoria, roentgen diagnostic features of (ab), 565

Arteriographic manifestations of peripheral occlusive vascular disease, 273
  picture of benign bone lesions containing giant cells (ab), 1100

Arteriography, coronary, correlative study of peripheral coronary pressures and, following coronary occlusion (ab), 1100
  postmortem, coronary sclerosis in (ab), 933
  simultaneous bilateral, of lower extremities, aortography with (ab), 185

Arteriovenous fistulas, congenital; systemic hemangiomatosis (ab), 1099

Artery, inferior mesenteric, coarctation of abdominal aorta at origin of; report of case

diagnosed by translumbar aortography, 1003
primitive trigeminal, angiographic demonstration of (carotid-basilar anastomosis) (ab), 1100
subclavian, true and false arteriosclerotic aneurysm of, 1007
Arthritis, psoriatic roentgen manifestations of (ab), 563
Au^{198}, treatment of cancer of prostate by interstitial injection of (ab), 192
A-V lecture kit (ab), 746

Backs, symptomatic and asymptomatic, comparative roentgen findings in (ab), 930
Barium, bronchography with (ab), 378
enema, rupture of colon in infants during (ab), 743
-enema tip, self-retaining, improvement in (ab), 558
-hydrogen peroxide mixture, detection of gastrointenstinal bleeding with, 698
sulfate, experimental hepatosplenography using, 328
Beeler, Raymond C., lectureship, 162
Betatron, 15 mev. Siemens, three years' experience with (ab), 935
15 mev., of Siemens-Reiniger Werke, new forms of pendulum irradiation with (ab), 936
Biliary tract cancer, case report on development of, eleven years after injection with thorotrast, 812
in normal cholecystectomized patient, 623
Biology, contributions of, to radiation therapy; Janeway lecture, 751
Bladder neck obstruction and associated lesions in children (ab), 928
tolerance of, to intracavitary irradiation (ab), 192
Bone cyst, aneurysmal (ab), 178; (ab), 179; (ab), 931
eosinophilic granuloma of, 502
infarct (ab), 562
infarcts in sickle-cell anemia (ab), 932
lesions, benign, containing giant cells, arteriographic picture of (ab), 1100
skin, and gonadal doses in routine diagnostic procedures, 961
texture changes and destructive lesions in various stages of ankylosing spondylarthritis (ab), 930
tumors, mineral content of, and its influence on radiation tumor dose, 109
unusual cystic lesion of, limited to pelvis and lower extremities; osteogenesis imperfecta cystica? (ab), 563
Bones, parietal, significance of thinning of, 39
Book Reviews
The XIV Japan Medical Congress. April 1–5, 1955, Kyoto. Part I and Part II. Edited by The Bureau of Archives, The XIV Japan Medical Congress at the Faculty of Medicine, Kyoto University, 163
Analytical Pathology; Treatises in the Perspective of Biology, Chemistry, and Physics. Edited by Robert C. Mellors, 163
IIe Congrès International de Radiophotographie Médicale. Paris—4–7 Avril, 1956. Rapports, 164
Basic Foundations of Isotope Technique for Technicians. Edited by Willard C. Smullen, 164
Medical Effects of the Atomic Bomb in Japan. Edited by Ashley W. Oughterson and Shields Warren, 165
Röntgenologische Differentialdiagnose der Knochenerkrankungen. By Hans Hellner and Hanno Poppe, 166
Circulatory Changes during Muscular Work in Man. By Alf Holmgren, 371
Diseases of the Heart. By Charles K. Friedberg, 371
Über die Technik der simultanen Telefilmplanigraphie. By Vidar Backlund, 371
Observations on the Migration of Some Labelled Substances between the Urinary Bladder and the Blood in the Rabbit. By Sven Erik Englund, 372
Biophysical Investigations of Urinary Calculi; An X-Ray Crystallographic and Microradiographic Study. By Curt Lagergren, 372
Radiology of the Alimentary Tract in Infancy. By Roy Astley, 552
Le Traitement des Angiomes chez les Enfants. By Simone Laborde, 552
Das Skelett des Kindes; Entwicklung, Bildungsfehler und Erkrankungen. By W. Swoboda, 553
Les Tumeurs de l'Amygdale et de la Région Vélopalatine. By A. Ennuyer and J.-P. Bataini, 736
Current Therapy—1957; Latest Approved Methods of Treatment for the Practicing Physician. Edited by Howard F. Conn, 736
Pelvimetry. By Herbert Thoms, 736
Studio Clinico-Radiologico Degli Esiti dell'Ascesso Polmonare. By Francesco Santagati, Nardo Calvi, and Giancarlo Rivolta, 736
Diseases of the Skin. By George Clinton Andrews, 737
Dermatology. By Donald M. Pillsbury, Walter B. Shelley, and Albert M. Kligman, 916
Rare Earths in Biochemical and Medical Research. Edited by Granvil C. Kyker and Elizabeth B. Anderson, 917
Progress in Radiobiology. Edited by Joseph S. Mitchell, Barbara E. Holmes, and Cyril L. Smith, 918
Lymphatics, Lymph and Lymphoid Tissue.

By Joseph Mendel Yoffey and Frederick Colin Courtice, 918
Bladder Tumors: A Symposium. Under the auspices of The American Cancer Society, 918
Stratiterapie Bifocale. By G. Tori, G. Brusori, R. Miceli, and E. Zaffagnini, 919
Souvenir Number of the Indian Journal of Radiology, 1956; In Commemoration of the Diamond Jubilee of the Discovery of X-Rays by Professor Dr. Wilhelm Conrad Röntgen. Edited by K. P. Mody, 919
Medizinische Röntgentechnik. I. Medizinischer Teil. Skelettaufnahmen und Organuntersuchungen. By Herbert Schoen and Detlev Schoen, 1085
I Quadri Radiologici delle Gastriti. By Alessandro Vallebona and Luigi Oliva, 1085
The Spine; Anatomico-Radiographic Studies, Development and the Cervical Region. By Lee A. Hadley, 1085
Positioning in Radiography. By K. C. Clark, 1086
Guide to Medical Writing; A Practical Manual for Physicians, Dentists, Nurses, Pharmacists. Edited by Henry A. Davidson, 1086
Rectoscopie, Sigmoïdoscopie. By P. Hillemand, R. Cattan, A. Lambling, and A. Bensaude, 1087
Études sur la Précision en Radiodiagnostic. Techniques d'un Nouveau Craniographe. Notation Angulaire de l'Incidence. By G. L. Dulac, 1087
Technique du Radiodiagnostic. By J. Garcia-Caldéron and G. Ledoux-Lebard, 1087
Borderlands of the Normal and Early Pathologic in Skeletal Roentgenology. By Alban Köhler, 1088

Brachiocephalic vessels, corner positioning for visualization of (ab), 184
Bronchial adenoma of peripheral type, note on roentgen features of (ab), 379
lymph nodes, radiologic aspects of perforation of, in course of primary infection (ab), 171
Bronchiectasis, advanced, reversal of (ab), 378
Bronchography, air contrast (ab), 1093
importance of, in study of broncho-pulmonary tumors (ab), 925
in diagnosis of pediatric problems (ab), 925
use of visciodol in (ab), 378
with barium (ab), 378

Caffey, John honored, 915
Calcification, choroid plexus, in unusual location and mobile, 95
diffuse intracranial, metastatic retinoblastoma as cause of, 437
diffuse, of pancreas, 599
in gastric carcinoma (ab), 174
of myocardium (ab), 740
papillary, in necrotizing renal papillitis, 1049
Calculi, urachal cyst with, 323
Cancer, biliary tract, case report on development of, eleven years after injection of thorotrast, 812
of prostate, treatment of, by interstitial injection of Au^{198} (ab), 192
ovarian, results of treatment of, with one million volt roentgen-ray (ab), 186
primary vaginal; irradiation management and end results (ab), 188
Carcinoma, adenoid cystic, of oral cavity, paranasal sinuses, and upper respiratory tract, 790
gastric, calcification in (ab), 174
large, of adrenal (ab), 560
mediastinal parathyroid, with metastases (ab), 556
of cervical stump (ab), 746
of cervix uteri; ten-year study with comparison of results of irradiation and radical surgery (ab), 186
of head of pancreas, intravenous cholangiography as aid in diagnosis of (ab), 927
of lower lip, results of treatment of, 780
of rectum, contribution to prophylaxis of; roentgenologic detection of small rectal polyps, 685
prostatic, limitations of radioisotope therapy for (ab), 1102
Cardiac output, in vivo method for determination of (ab), 191
Carpal images at initial stages of polyarthritis (ab), 930
Cecum, roentgen criteria of impending perforation of (ab), 742
Centre Antoine Béclère, 735
Cervical discography, technique of (ab), 1099
epithelium, preliminary study of metabolism of nucleic acids and proteins in; autoradiographic study of normal and neoplastic tissues (ab), 192
stump, carcinoma of (ab), 746
Cervix uteri, carcinoma of; ten-year study with comparison of results of irradiation and radical surgery (ab), 186
Chagas' disease and dysphagia in their relation with achalasia (ab), 380
Chest, experimental study and evaluation of so-called "transport shadows" in transverso-axial laminagraphy of (ab), 1095)
phantom for use in radiologic dosimetry, development of (ab), 193
photofluorograms, abnormalities seen on, and diagnosable heart disease, 226
Cholangiographic diagnosis, intravenous, of partial obstruction of common bile duct (ab), 744
Cholangiography, intravenous, as aid in diagnosis of carcinoma of head of pancreas (ab), 927

oral or intravenous, comparison of results obtained by, with those of operative cholangiography in diseases of sphincter of Oddi (ab), 1096
Cholecystectomized patient, biliary tract in normal and, 623
Cholecystitis glandularis proliferans (ab), 744
Cholecystography, oral, radiographic demonstration of choledochal cyst by (ab), 1096
with sodium salt of iopanoic acid (ab), 175
Cholecystometry, contribution of, to functional study of gallbladder (ab), 927
Chondroangiopathia calcarea seu punctata (chondrodystrophia calcificans congenita); atypical stationary form of disease, 492
Choroid plexus calcification in unusual location and mobile, 95
Circulation, portal, in portal hypertension (ab), 183
Clavicle, duplication of; "os subclaviculare" (ab), 745
Co^{60} gamma rays, comparative mortality following single whole-body exposures of mice to fission neutrons and (ab), 749
Collagen diseases of lungs, pulmonary fibrosis and (ab), 375; (ab), 376; (ab), 377
Collimator, modified, for use with scintillation counter for total body scanning, studies with, 855
Colloidal stannic oxide; animal studies on new hepatolienographic agent (ab), 935
Colon, improved technique for double contrast examination of, by use of compressed carbon dioxide (ab), 175
report of first case of pneumatosis cystoides intestinalis complicated by fatal rupture of, 681
rupture of, in infants during barium enema (ab), 743
spontaneous regression of polyps of, in children (ab), 175
use of senna for preparation of, for roentgen examination, 725
Colonic lesions, other obstructive, association of volvulus of cecum and ascending colon with, 587
obstruction, simulation of, at splenic flexure by pancreatitis; roentgen features, 607
Common bile duct, intravenous cholangiographic diagnosis of partial obstruction of (ab), 744
Common duct, milk of calcium bile in, 1020
Congenital goiter (ab), 739
posterolateral diaphragmatic hernia in newborn (ab), 740
Contrast examination of larynx and pharynx (ab), 375
injection into left ventricle of heart, controlled puncture and (ab), 172
media, intravenously injected, heterotropic excretion of (ab), 560
medium, use of carbon dioxide as, for visualization of heart and great vessels (ab), 556
medium, water-soluble, containing dextran (perjodal H viscous) (ab), 177
medium, water soluble (hypaque), use of, for gastrointestinal roentgenography, 694
Cooley's anemia, review of roentgenographic findings in skeleton, 381
Coproliths (ab), 1095
Coracoclavicular joint, 86
Coronary pressures, peripheral, and coronary arteriography following coronary occlusion, correlative study of (ab), 1100
sclerosis in postmortem arteriography (ab), 933
Cranial immobilization device for use in roentgen therapy (ab), 747
Cuneiform bone, middle, bilateral osteochondritis of (ab), 745
Cushing's syndrome without adrenocortical tumor, roentgen therapy in (ab), 187
Cystitis and ureteritis emphysematosa (ab), 1097
Cystography, delayed, in children, 486

Dark adaptation with limited light and color vision (ab), 1101
Darkroom door interlock system, note on, 1067
Dental remnants in edentulous regions, device for localization of (ab), 739
Developer activity, simple sensitometric control of, 145
Diabetes mellitus, renal Escherichia coli infection associated with, 719
Diastematomyelia, diagnosis and treatment of (ab), 1098
Diatrizoate sodium, studies of tissue distribution and excretion of, in laboratory animals, 137
Discography, cervical, technique of (ab), 1099
Dissecting aneurysm of thoracic aorta, roentgen recognition of, 247
Diverticula of appendix (ab), 175; (ab), 679
Diverticular ureteral changes, 1053
Dose, depth, dependence of, on energy levels and field size in irradiation with electron beam (ab), 936
distribution in conical rotation therapy with 2 mev. generator (ab), 1102
percentage depth, in moving-field therapy (ab), 1102
Doses, bone, skin, and gonadal, in routine diagnostic procedures, 961
Dosimeter, photographic personnel, for roentgen-radiation in range from 30 kev. to beyond 1 mev. (ab), 938
Double contrast examination of colon, improved technique for, by use of compressed carbon dioxide (ab), 175
Dysautonomia, familial, roentgenographic findings in (ab), 929

Dysphagia, and Chagas' disease in their relation with achalasia (ab), 380
Dysphagia lusoria (ab), 925
Dysplasia epiphysialis hemimelica, (tarso-epiphyseal aclasis) (ab), 929

Ectopia, congenital superior, of kidney, 508
Edentulous regions, device for localization of dental remnants in (ab), 739
Editorials
Fifty-eighth Annual Meeting of the American Roentgen Ray Society, 151
Annual Meeting of the American Radium Society, 349
John Heberding, 1882–1957, 351
Lead poisoning during infancy and early childhood, 547
Public relations and educational programs of the American College of Radiology, 728
Joseph M. Foley, 1899–1957, 732
The relative biological effectiveness of supervoltage radiations, 902
Byrl Raymond Kirklin, 1888–1957, 906
Fifty-eighth Annual Meeting of the American Roentgen Ray Society, 1070
Ira Hiram Lockwood, 1885–1957, 1073
Emergency cart for radiologic department, 134
Encephalo-trigeminal angiomatosis, cerebral angiography in (ab), 565
Enterolith, calcified appendiceal, significance of (ab), 926
Enteroliths complicating regional enteritis, 653
Eosinophilic granuloma of bone, 502
of pelvis in children, three cases of (ab), 179
Epidermolysis bullosa, roentgen manifestations of, 66
Esophageal moniliasis, roentgenographic appearances of (ab), 174
strictures, double contrast method for roentgen examination of (ab), 174
webs, 567
Esophagus, effect of radiation on; clinical and histologic study of effects produced by betatron (ab), 936
normal lower, and phrenic ampulla, effects of sustained deep inspiration on, in erect adults, 1013
"sickle" shaped deviation of lower third of (ab), 379
spontaneous rupture of; with emphasis on roentgenologic diagnosis, 574
Euthyroid patients, influence of iodoalphionic acid (priodax), with and without thyrotropin, on thyroidal I^{131} uptake in (ab), 190

Fetal blood stream, gas in; useful sign of fetal death, 483
Fetography, roentgen visualization of fetus in utero by (ab), 380
Fibrosing lung lesions, differential diagnosis of (ab), 170
Film, amateur photographic and dental roentgen-ray, disaster monitoring with (ab), 194
Fluoride intoxication, incipient chronic, from drinking water; distinction between allergic reactions and drug intolerance (ab), 1100
osteosclerosis, 13
Fluoroscopy of small pelvis under normal conditions and with image amplifier, comparative dose measurements on ovary in pelvic roentgenography with normal and high voltage technique and in (ab), 193
Foley, Joseph M., 1899–1957, obituary, 732
portrait, 732
Foramen of Morgagni, diaphragmatic hernia through (ab), 741
partial obstruction of inferior vena cava by herniation of liver through (ab), 557
Foreign bodies, gastric (ab), 741
Foveola pharyngea occipitalis, roentgen visualization of, and its relation to canalis basilaris medianus (ab), 375

Gallbladder, contribution of cholecystometry to functional study of (ab), 927
hypotonia of, of myxedematous origin (ab), 176
nonvisualizing and poorly visualizing, 617
Gallstone, intragastric, 631
Gallstones, intestinal obstruction by (ab), 743
Gas in fetal blood stream; useful sign of fetal death, 483
Gastric dilatation, acute intrathoracic, associated with Bochdalek hernia in infant (ab), 926
foreign bodies (ab), 741
Gastrointestinal bleeding, detection of, with barium-hydrogen peroxide mixture, 698
function, use of radioactive isotopes in evaluation of, 705
manifestations of Schönlein-Henoch syndrome, 643
roentgenography, use of water soluble contrast medium (hypaque) for, 694
Genetic basis for limitation of radiation exposure, 955
Giant cell tumor, metastasizing; report of unusual case with indolent bone and pulmonary metastases, 804
Goiter, congenital (ab), 739
endemic, in Venezuela studied with I^{131} (ab), 190
Growth arrest, premature, of knee epiphyses, 499

Hand and wrist, peritendinitis calcarea of, 74
skeleton, human, effect of prolonged nutritive failure on epiphyseal fusion in, 461
Head, immobilization of, during rotational roentgen-ray therapy (ab), 935
safe roentgen epilation of (ab), 935
Heart and great vessels, use of carbon dioxide as contrast medium for visualization of (ab), 556
controlled puncture and contrast injection into left ventricle of (ab), 172

disease, abnormalities seen on chest photofluorograms and, 226
right, bases of pneumoradiography of, with carbon dioxide (ab), 557
Heberding, John, 1882–1957, obituary, 351
portrait, 351
Hemangioma of small intestine (ab), 1095
posterior mediastinal (ab), 174
Hemangiomas, treatment of, with strontium-90 beta-ray applicator (ab), 190
Hemangiomatosis, systemic; congenital arteriovenous fistulas (ab), 1099
Hematologic recovery of adult and weanling rats following whole body roentgen irradiation, 887
Hepatic artery, aneurysm of; roentgenologic features in one case, 270
Hepatography, 710
Hepatolienographic agent, new, animal studies on; colloidal stannic oxide (ab), 935
Hepatosplenography, experimental, using barium sulfate, 328
Hernia, Bochdalek, in infant, acute intrathoracic gastric dilatation associated with (ab), 926
congenital posterolateral diaphragmatic, in newborn (ab), 740
diaphragmatic, through foramen of Morgagni (ab), 741
postoperative diaphragmatic; complication of hiatus hernia repair, 633
right-sided diaphragmatic liver, following trauma, 99
Heterotropic excretion of intravenously injected contrast media (ab), 560
Hiatus hernia repair, complication of; postoperative diaphragmatic hernia, 633
Hip, results of radiotherapy in osteoarthritis of (ab), 747
Hirschsprung's disease, 1024
Hyaline membrane disease, preclinical roentgen diagnosis of (ab), 378
roentgenographic findings in, in infants weighing 2,000 grams and over, 444
Hyo-thyro-epiglottic space, radiologic image of tumors of (ab), 375
Hypercalcemia, idiopathic, 19
severe idiopathic, of infancy, radiographic features of (ab), 1098
Hyperostosis, infantile cortical (ab), 563; (ab), 1098
Hypertension, congenital malformation of renal artery cause of (ab), 928
portal, portal circulation in (ab), 183
Hypertrophy, giant rugal, of stomach (ab), 742
Hypophosphatasia, 392
Hypotonia of gallbladder, of myxedematous origin (ab), 176
Hysterosalpingography using salpix (ab), 176

I^{131}, endemic goiter in Venezuela studied with (ab), 190
uptake, thyroidal, in euthyroid patients, influence of iodoalphionic acid (priodax), with and without thyrotropin, on (ab), 190
Idiopathic hypercalcemia, 19
Ileocecal intussusception in adult, 662
Ileocolitis (ab), 558
Ileus, regional or reflex, significance of, in roentgen diagnosis of cholecystitis, perforated ulcer, pancreatitis and appendiceal abscess, as determined by survey examination of acute abdomen, 581
Impingement exostoses of talus and tibia (ab), 931
Infantile cortical hyperostosis (ab), 563; (ab), 1098
Inter-American College of Radiology, 162
International Commission on Radiological Units and Measurements, report of, 161
Intestinal obstruction by gallstones (ab), 743
Intracranial tumors, observations on cranial radiography in series of (ab), 169
Intragastric gallstone, 631
Intra-osseous venography with special reference to its complications (ab), 184
Intrathoracic accessory lobe of liver (ab), 557
Intravenous urographic media, comparative study of three, by random selection technique, 1061
Intussusception, ileocecal, in adult, 662
In vivo method for determination of cardiac output (ab), 191
Iopanoic acid, cholecystography with sodium salt of (ab), 175
Irradiating exteriorized small bowel, effect of, on sugar absorption, 850
Irradiation, chronic whole-body, shortening of life by, 946
external, of thyroid gland in dogs, 864
intracavitary, tolerance of bladder to (ab), 192
management and end results of primary vaginal cancer (ab), 188
of urinary bladder tumors, results of (ab), 937
pendulum, new forms of, with 15 mev. betatron of Siemens-Reiniger Werke (ab), 936
preliminary roentgen (ab), 187
sickness, new drugs for (ab), 748
with electron beam, dependence of depth dose on energy levels and field size in (ab), 936
Irradiations, total and subtotal, various mechanisms of death after (ab), 189

James Picker Foundation awards, 915
Joint, coracoclavicular, 86
Journal Belge de Radiologie, 734

Kidney, congenital superior ectopia of, 508
Kirklin, Byrl Raymond, 1888–1957, obituary, 906
portrait, 906
Knee epiphyses, premature growth arrest of, 499

Laminagraphy, lung, use of different tube shifts in (ab), 379

Larynx and pharynx, contrast examination of (ab), 375
Lead poisoning during infancy and early childhood (E), 547
Leukemia, acute, pleural pulmonary picture in (ab), 740
childhood, vertebral changes in (ab), 180
Lindau's disease simulating anorexia nervosa, case of, 283
Linear accelerator, 4 mev., physical measurements on (ab), 747
Lip, lower, results of treatment of carcinoma of, 780
Liver hernia, right-sided diaphragmatic, following trauma, 99
intrathoracic accessory lobe of (ab), 557
partial obstruction of inferior vena cava by herniation of, through foramen of Morgagni (ab), 557
Lockwood, Ira Hiram, 1885–1957, obituary, 1073
portrait, 1073
LogEtronography, 124
Lung, homolateral, large pneumothorax and associated massive collapse of, due to intrabronchial obstruction (ab), 556
left, massive atelectasis of, in children with congenital heart disease (ab), 1094)
lesions, fibrosing, differential diagnosis of (ab), 170
tissue, correction factors for tumor dose in chest cavity due to diminished absorption and scatter in (ab), 194
tomography, use of different tube shifts in (ab), 379
tumors, apical, radiation management of (ab), 188
Lungs, pulmonary fibrosis and collagen diseases of (ab), 375; (ab), 376; (ab), 377
roentgen appearances of, in 1,000 apparently normal full term newborn infants, 440
Lymphatic vessels, lesions of, in congenital malformations of deep veins (ab), 184
Lymphatics, mammalian, effect of ionizing radiations on regeneration and behavior of; in vivo studies in Sandison Clark chambers, 837
Lymphoma, mouse, locally radioresistant, development and transplantation of, 831

Mechanisms of death, various, after total and subtotal irradiations (ab), 189
Meconium ileus (ab), 743
Mediastinal hemangioma, posterior (ab), 174
Melanoma, malignant, roentgen manifestations of, 769
malignant, treatment of, with special reference to possible effect of radiotherapy (ab), 186
Metabolism of nucleic acids and proteins in cervical epithelium, preliminary study of; autoradiographic study of normal and neoplastic tissues (ab), 192
Microradiography, high voltage projection, improved definition in roentgen-ray diagnosis by (ab), 185
Mikulicz's disease and Mikulicz's syndrome, sialographic differentiation of (ab), 739
Milk of calcium bile in common duct, 1020
Mitral commissurotomy patients, 150 consecutive, roentgenologic follow-up on, 213
valvular disease, radiographic estimation of pulmonary artery pressure in (ab), 172
Myeloma, multiple, coexistence of Paget's disease of bone and, 30
Myocardium, calcification of (ab), 740
Myometrium, clearance rates of radiosodium from (ab), 748

Na^{22} and external counter for measuring whole-body radioactivity, sodium balance studied with (ab), 191
Neuroblastoma, radiation therapy of (ab), 187
roentgenologic and pathologic study of, 420
Newell, Robert R., honored, 550
Ninth International Congress of Radiology, 550
Nocardiosis (ab), 172
Nutritive failure, prolonged, effect of, on epiphyseal fusion in human hand skeleton, 461

Oak Ridge Institute of Nuclear Studies offers radioisotopes courses, 915
Oak Ridge National Laboratory and Oak Ridge Institute of Nuclear Studies sponsor symposium, 353
Ochronosis, 46
and arthritis, alkaptonuria with (ab), 180
Oculo-neurologic sequelae due to trauma, radiological investigation of (ab), 169
Ophthalmic artery aneurysm (ab), 1099
Optic canal and sphenoidal sinus, roentgenologic study of correlations between (ab), 739
Oral cavity, paranasal sinuses, and upper respiratory tract, adenoid cystic, carcinoma of, 790
Osseous torticollis, congenital, in schisosynostosis axialis congenita familiaris (ab), 182
Ossicles, unusual bilateral sacrococcygeal (ab), 179
Ossification, para-articular, a complication of poliomyelitis (ab), 1097
Ossified secondary centers of lumbar vertebrae, vacuum sign in (ab), 932
Osteoarthritis, aging and (ab), 181
of hip, results of radiotherapy in (ab), 747
Osteochondritis, bilateral, of middle cuneiform bone (ab), 745
Osteogenesis imperfecta congenita, case of, diagnosed in utero (ab), 558
Osteogenesis imperfecta cystica? Unusual cystic lesion of bone, limited to pelvis and lower extremities (ab), 563
Osteoma cutis, 73
Osteopetrosis, generalized, of newborn (Albers-

Schönberg's disease) with adenopathy of Hodgkin's type (ab), 182
Osteosclerosis, fluoride, 13

Paget's disease—active or quiescent? (ab), 562
of bone and multiple myeloma, coexistence of, 30
Pain, congenital indifference to; with special reference to skeletal changes (ab), 180
Pancreas, diffuse calcification of, 599
intravenous cholangiography as aid in diagnosis of carcinoma of head of (ab), 927
new method for demonstration of (ab), 176
Pancreatitis, simulation of colonic obstruction at splenic flexure by; roentgen features, 607
Pantopaque intravasation (embolization) during myelography (ab), 1097
Parathyroid carcinoma, mediastinal, with metastases (ab), 556
Parietal bones, significance of thinning of, 39
Parosteal osteogenic sarcoma, roentgenographic recognition and differentiation of, 1
Pediatric problems, bronchography in diagnosis of (ab), 925
Pelvis, small, comparative dose measurements on ovary in pelvic roentgenography with normal and high voltage technique and in fluoroscopy of, under normal conditions and with image amplifier (ab), 193
three cases of eosinophilic granuloma of, in children (ab), 179
Pelycephalometry, roentgenographic, automatic compensation in, 1063
Pericardial effusion and thickening, intravenous carbon dioxide for intracardiac gas contrast in roentgen diagnosis of, 224
Peritendinitis calcarea of hand and wrist, 74
Perjodal H viscous, water-soluble contrast medium containing dextran (ab), 177
Photographic film, roentgen-ray studies of, 161
Phrenic ampulla and normal lower esophagus, effects of sustained deep inspiration on, in erect adults, 1013
Physiology, visual, of roentgen diagnosis, 116
Pitressin, clinical use of, in excretory urography, 343
Pituitary fossa, roentgen standards for size of, from infancy through adolescence, 451
Placentography, gravitational (ab), 927
soft-tissue, in diagnosis of bicornuate uterus (ab), 559
Pleuropulmonary tularemia, roentgen manifestations of (ab), 171
Pneumatosis cystoides intestinalis, report of first case complicated by fatal rupture of colon, 681
Pneumography and aortography in children (ab), 560
Pneumoradiography of right heart with carbon dioxide, bases of (ab), 557
Pneumothorax, large, and associated massive collapse of homolateral lung due to intrabronchial obstruction (ab), 556
Polyarteritis, ulcerative jejunitis in (ab), 926
Polyarthritis, carpal images at initial stages of (ab), 930
Polyps of colon in children, spontaneous regression of (ab), 175
Portal circulation in portal hypertension (ab), 183
venography, percutaneous splenic (ab), 565
Presacral insufflation of air, fatal air embolism during (ab), 561
Pseudotumor sign, variant of, 691
Public relations and educational programs of American College of Radiology (E), 728
Pulmonary adenomatosis, contribution to so-called (ab), 1092
Pulmonary arteriovenous fistula, roentgen manifestations of, 234
artery pressure in mitral valvular disease, radiographic estimation of (ab), 172
fibrosis and collagen diseases of lungs (ab), 375; (ab), 376; (ab), 377
hypertension, primary, in brothers, 471
mycoma, roentgen diagnosis of (ab), 171
picture, pleural, in acute leukemia (ab), 740
Pyelitis cystica and ureteritis cystica (ab), 561
Pyelography, intravenous, layering of urine during (ab), 178
Pyelorenal backflow, 296

Rachitis deformities (ab), 929
Radiation damage of rabbit's eye in relation to dosage and quality of roentgen rays (ab), 749
effect of, on esophagus; clinical and histologic study of effects produced by betatron (ab) 936
exposure, genetic basis for limitation of, 955
exposure, past and present, to radiologists from point of view of life expectancy, 988
exposure, practical suggestions for reducing, in diagnostic examinations, 983
hazards and what is being done about them; symposium, 944
hazards, today's problems in, and what is being done to control them; summary, 1000
management of apical lung tumors (ab), 188
protection, common sense in, applied to clinical practice, 993
protection group appoints new committee, 160
quality, target-axis distance, and field size, effects of, on dose distribution in rotation therapy, 819
supplemented by local application of oxygen, early results from treatment of skin tumors with (ab), 937
therapy, contributions of biology to; Janeway lecture, 751
therapy, grid method in, with ultra-hard roentgen rays at 15 mev. (ab), 936
therapy of neuroblastoma (ab), 187

tumor dose, mineral content of bone tumors and its influence on, 109
Radiations, ionizing, effect of, on regeneration and behavior of mammalian lymphatics; in vivo studies in Sandison Clark chambers, 837
Radioactive, gold production of malignant tumors (hepatomas and others) by intraperitoneal injection of, in white rat (ab), 938
iodine tracer dose, assessment of thyroid function by measurement of urinary secretion of; review of cases examined and consideration of usefulness of test (ab), 191
isotopes, course in, for technicians, 735
isotopes, use of, in evaluation of gastrointestinal function, 705
Radioactivity, whole-body, sodium balance studied with Na^{22} and external counter for measuring (ab), 191
Radiographic estimation of pulmonary artery pressure in mitral valvular disease (ab), 172
features of severe idiopathic hypercalcemia of infancy (ab), 1098
Radiography, cranial, observations on, in series of intracranial tumors (ab), 169
Radioisotope therapy, limitations of, for prostatic carcinoma (ab), 1102
Radiologic aspects of perforation of bronchial lymph nodes in course of primary infection (ab), 171
department, emergency cart for, 134
dosimetry, development of chest phantom for use in (ab), 193
image of tumors of hyo-thyro-epiglottic space (ab), 375
investigation of oculo-neurologic sequelae due to trauma (ab), 169
Radiologist, clinical, emergence of, and his problems, 939
Radiologists, four normal anatomic variations of importance to, 89
past and present radiation exposure to, from point of view of life expectancy, 988
Radiology, morphologic, contribution to, and clinical anatomy of pulmonary adenomatosis (ab), 1093
postgraduate course in, to be presented, 353
Radioresistance, relation of tumor size to (ab), 937
Radioresistant, locally, mouse lymphoma, development and transplantation of, 831
Radiosodium, clearance rates of, from myometrium (ab), 748
Radiotherapy in osteoarthritis of hip, results of (ab), 747
treatment of malignant melanoma with special reference to possible effect of (ab), 186
Rectal polyps, roentgenologic detection of; contribution to prophylaxis of carcinoma of rectum, 685
Regional enteritis, enteroliths complicating, 653
Relative biological effectiveness of supervoltage radiations (E), 902
Renal artery, aneurysm of, 267
artery aneurysms, 256
artery, congenital malformation of, cause of hypertension (ab), 928
backflow in excretory urography, 289
Escherichia coli infection associated with diabetes mellitus, 719
lesions, significance of aortography in diagnosis of (ab), 177
papillitis, necrotizing, papillary calcification in, 1049
pyramids, opacification of, in intravenous urography, 317
tumors, radiologic diagnosis of, by renal angiography (ab), 178
Renografin; new intravenous urographic medium (ab), 559
Retinoblastoma, metastatic, as cause of diffuse intracranial calcification, 437
Retrocaval ureter (ab) 1096
Retroperitoneal tumors, primary, 333
Retropleural hematomas, roentgenologic aspects of, following sympathectomy (ab), 379
Rocky Mountain Radiological Society, 353
Roentgen appearances of lungs in 1,000 apparently normal full term newborn infants, 440
criteria of impending perforation of cecum (ab), 742
death of young axolotl (Siredon mexicanum), histopathology of, 518
diagnosis of aneurysmal bone cyst (ab), 178
diagnosis of Armillifer infection (porocephalosis) in man (ab), 185
diagnosis of cholecystitis, perforated ulcer, pancreatitis and appendiceal abscess, as determined by survey examination of acute abdomen, significance of regional or reflex ileus in, 581
diagnosis of pericardial effusion and thickening, intravenous carbon dioxide for intracardiac gas contrast in, 224
diagnosis of pulmonary mycoma (ab), 171
diagnosis, preclinical, of hyaline membrane disease (ab), 378
diagnosis, visual physiology of, 116
diagnostic features of arteria lusoria (ab), 565
epilation, safe, of head (ab), 935
examination of esophageal strictures, double contrast method for (ab), 174
examination of essential scoliosis (ab), 930
examination, use of senna for preparation of colon for, 725
features of bronchial adenoma of peripheral type, note on (ab), 379
findings, comparative, in symptomatic and asymptomatic backs (ab), 930
findings in patients with high serum calcium (ab), 181

findings in progressive scleroderma (ab), 934
image, symmetry of, in silicosis (ab), 170
irradiation, effects of, on fertilized eggs of annelid, chaetopterus (ab), 750
irradiation, preliminary (ab), 187
irradiation, whole body, hematologic recovery of adult and weanling rats following, 887
manifestation of epidermolysis bullosa, 66
manifestations of isolated ventricular septal defect, evaluation of (ab), 173
manifestations of malignant melanoma, 769
manifestations of pleuropulmonary tularemia (ab), 171
manifestations of psoriatic arthritis (ab), 563
manifestations of pulmonary arteriovenous fistula, 234
-radiation in range from 30 kev. to beyond 1 mev., photographic personnel dosimeter for (ab), 938
-ray diagnosis, improved definition in, by high voltage projection microradiography (ab), 185
-ray film, dental, disaster monitoring with amateur photographic film and (ab), 194
-ray, one million volt, results of treatment of ovarian cancer with (ab), 186
-ray radiation and dental patient (ab), 1091
-ray studies of photographic film, 161
-ray therapy, hormonal background of ankylosing spondylitis in relation to (ab), 564
-ray therapy, rotational, immobilization of head during (ab), 935
rays, dosage and quality of, radiation damage of rabbit's eye in relation to (ab), 749
rays, ultra-hard, at 15 mev., grid method in radiation therapy with (ab), 936
recognition of dissecting aneurysm of thoracic aorta, 247
standards for size of pituitary fossa from infancy through adolescence, 451
therapy device, cranial immobilization device for use in (ab), 747
therapy in Cushing's syndrome without adrenocortical tumor (ab), 187
visualization of fetus in utero by fetography (ab), 380
visualization of foveola pharyngea occipitalis and its relation to canalis basilaris medianus (ab), 375

Roentgenographic appearances of esophageal moniliasis (ab), 174
diagnosis of spinal tumors, 54
findings in familial dysautonomia (ab), 929
findings in hyaline membrane disease in infants weighing 2,000 grams and over, 444
findings in skeleton in Cooley's anemia, review of, 381
observations of functioning temporomandibular joints (ab), 1091
pelycephalometry, automatic compensation in, 1063
recognition and differentiation of parosteal osteogenic sarcoma, 1
study, in vivo, blood-level study and relief of anginal pain with pentaerythritol tetranitrate; timed-disintegration capsules (tymcaps)—further study (ab), 173

Roentgenography, antepartum diagnostic, effect of, on white blood cell count of newborn infant (ab), 380
gastrointestinal, use of water soluble contrast medium (hypaque) for, 694
pelvic, comparative dose measurements on ovary in, with normal and high voltage technique and in fluoroscopy of small pelvis under normal conditions and with an image amplifier (ab), 193

Roentgenologic and pathologic study of neuroblastoma, 420
detection of small rectal polyps; contribution to prophylaxis of carcinoma of rectum, 685
examination of thorax, recent contributions to (ab), 556
follow-up on 150 consecutive mitral commissurotomy patients, 213
study of correlations between optic canal and sphenoidal sinus (ab), 739

Rotation therapy, effects of radiation quality, target-axis distance, and field size on dose distribution in, 819

Rupture, spontaneous, of esophagus; with emphasis on roentgenologic diagnosis, 574

S^{35}, localization of, in skin of rat (ab), 749
Sacrococcygeal ossicles, unusual bilateral (ab), 179
Sacroiliac joints, what do spot films of, have to offer? (ab), 932
Sacrum, agenesis of (ab), 932
Salmonella bacteremia: case with miliary lung lesions and spondylitis (ab), 1093
Salpix, hysterosalpingography using (ab), 176
Schisosynostosis axialis congenita familiaris, congenital osseous torticollis in (ab), 182
Schönlein-Henoch syndrome, gastrointestinal manifestations of, 643
Science and solitude versus clinical consultation; Carman lecture (ab), 745
Scleroderma, progressive, roentgen findings in (ab), 934
Scoliosis, essential, roentgen examination of (ab), 930
Senna, use of, for preparation of colon for roentgen examination, 725
Sensitometric control, simple, of developer activity, 145
Serum calcium, high, roentgen findings in patients with (ab), 181
Sialographic differentiation of Mikulicz's disease and Mikulicz's syndrome (ab), 739

"Sickle" shaped deviation of lower third of esophagus (ab), 379
Silicosis, symmetry of roentgen image in (ab), 171
Skeletal changes, congenital indifference to pain, with special reference to (ab), 180
Skin of rat, localization of S^{35} in (ab), 749
tumors, early results from treatment of, with radiation supplemented by local application of oxygen (ab), 937
Small bowel, exteriorized, effect of irradiating, on sugar absorption, 850
Sphenoidal sinus and optic canal, roentgenologic study of correlations between (ab), 739
Spinal tumors, roentgenographic diagnosis of, 54
Splenic artery aneurysms; report of 17 cases showing calcification on plain roentgenograms (ab), 183
Splenoportography, percutaneous, effectiveness and limitations of (ab), 745
Spondylolisthesis, autopsy study (ab), 179
Spot films of sacroiliac joints (ab), 932
Stomach, giant rugal hypertrophy of (ab), 742
Strontium-90 beta-ray applicator, treatment of hemangiomas with (ab), 190
Superior vena caval obstruction, venography in (ab), 934
Supervoltage radiations, relative biological effectiveness of (E), 902
Sympathectomy, roentgenologic aspects of retropleural hematomas following (ab), 379
Synchrocyclotron, Chicago, pretherapeutic studies with, 876

Talus and tibia, impingement exostoses of (ab), 931
Tarso-epiphyseal aclasis; dysplasia epiphysialis hemimelica (ab), 929
Th^{227}, case of accidental puncture contaminated with; studies on elimination and residual body activity (ab), 750
Therapy, conical rotation, with 2 mev. generator, dose distribution in (ab), 1102
moving-field, percentage depth dose in (ab), 1094
Thoracic aorta, roentgen recognition of dissecting aneurysm of, 247
Thorax, recent contributions to roentgenologic examination of (ab), 556
Thorotrast, case report on development of biliary tract cancer eleven years after injection of, 812
Thyroid adenoma, metastasizing, diagnosis of (ab), 740
function, assessment of, by measurement of urinary excretion of radioactive iodine tracer dose; review of cases examined and consideration of usefulness of test (ab), 191
gland in dogs, external irradiation of, 864
Timed-disintegration capsules (tymcaps)— further study; in vivo roentgenographic study, blood-level study and relief of anginal pain with pentaerythritol tetranitrate (ab), 173
Tissue distribution and excretion of sodium diatrizoate in laboratory animals, studies of, 137
Total body scanning, studies with modified collimator for use with scintillation counter for, 855
Trigonocephaly (ab), 1092
Tumor dose in chest cavity due to diminished absorption and scatter in lung tissue, correction factors for (ab), 194
size, relation of, to radioresistance (ab), 937
Tumors, broncho-pulmonary, importance of bronchography in study of (ab), 925
malignant (hepatomas and others), production of, by intraperitoneal injection of radioactive gold in white rat (ab), 938
primary retroperitoneal, 333

Ulcerative jejunitis in polyarteritis (ab), 926
Urachal cyst with calculi, 323
Ureteral changes, diverticular, 1053
Ureteritis cystica and pyelitis cystica (ab), 561
Ureteropelvic junction, obstructed (ab), 561
Urinary bladder tumors, results of irradiation of (ab), 937
Urine, layering of, during intravenous pyelography (ab), 178
Urographic media, three, intravenous, comparative study of, by random selection technique, 1061
medium, new intravenous, renografin as (ab), 559
Urography, excretory, clinical use of pitressin in, 343
excretory, renal backflow in, 289
intravenous, opacification of renal pyramids in, 317
Uterus, bicornuate, soft-tissue placentography in diagnosis of (ab), 559

Vascular disease, peripheral occlusive, arteriographic manifestations of, 273
Veins, deep, lesions of lymphatic vessels in congenital malformations of (ab), 184
Venography in superior vena caval obstruction (ab), 934
intra-osseous, with special reference to its complications (ab), 184
percutaneous splenic portal (ab), 565
Ventricular septal defect, isolated, evaluation of roentgen manifestations of (ab), 173
Vertebrae, lumbar, vacuum sign in ossified secondary centers of (ab), 932
Vertebral changes in childhood leukemia (ab), 180
vein system, 195
Visciodol in bronchography, use of (ab), 378
Visualization of brachiocephalic vessels, corner positioning for (ab), 184

Volvulus of cecum and ascending colon, association of, with other obstructive colonic lesions, 587

Weatherwax, James, Blockley Radiological Society honors, 550

Whole-body exposures, single, of mice to fission neutrons and Co^{60} gamma rays, comparative mortality following (ab), 749
irradiation, chronic, shortening of life, by, 946
radioactivity, sodium balance studied with ^{22}Na and external counter for measuring (ab), 191
roentgen irradiation, hematologic recovery of adult and weanling rats following, 887

Wilms' tumor, management of, as determined by national survey and review of literature (ab), 1101

AUTHOR INDEX TO VOLUME 78

*=Original Article

Abbatucci, J., 938
Abeshouse, Benjamin S., 1101
Abrams, Hyman S., *95
Ackerman, Lauren V., 936
Albeaux-Fernet, M., 184
Alpert, Meyer, *66
Anacker, H., 745
Anderson, Elizabeth B., 917
Anderson, F. G., *623
Andrén, Lars, 174, 175
Andrews, George Clinton, 737
Andrews, Gould A., *864
Aramsri, Bisamai, *54
Archimbaud, Jean, 930
Arendt, Julian, 560
Arias Bellini, M., 176
Astley, Roy, 552
Athanasiu, Mircea, 739

Babaiantz, L., 182
Backlund, Vidar, 371
Baker, James P., *226
Barton, Harry L., *710
Bataini, J.-P., 736
Batson, Oscar V., *195
Battersby, J. Stanley, 740
Bauer, Donald, *296
Baylin, G. J., *705
Becker, Josef, 935, 936
Bednarz, Wallace W., 379
Benedict, Claus, 936
Bennett, Hugh D., *710
Bensaude, A., 1087
Berg, H. M., 1095
Berg, R. M., 1095
Berger, Israel R., *780
Bergman, Frank, 177
Bergstrand, I., 183
Berk, J. Edward, *328
Berlin, Herbert S., *508
Berman, Harry L., 935
Besiv, G. L., 1095
Besse, Byron E., Jr., 739
Bilger, F., 177
Biondetti, Paolo, *213
Blatt, Nicolas, 739
Bluth, Irwin, 379
Bohatirchuk, F., 181
Bohlig, H., 170
Bolhuis, Frances, *855
Bongiovanni, Alfred M., 739
Bonte, Frederick J., *691
Bonte, G., 1096
Bouchillon, C. D., 927
Boucot, N., 187
Bowman, J. R., *19
Boyd, David P., 741
Brady, Boyer M., 170, 926
Braestrup, Carl B., *988
Braxton, Maceo, *631
Bream, Charles A., *343, 563
Bren, Thomas H., 928
Brockis, J. G., 743
Broder, Harold, *502
Brodeur, Armand E., *226
Brogdon, Byron G., *74
Brown, C. H., 560
Brown, Ben S., 351
Brown, George H., Jr., *1063
Brown, Pierpont F., *780
Brunst, V. V., *518
Brusori, R., 919
Bruwer, André J., *270
Bunnag, Tawan Surawongse, *1003
Burns, Edgar, 928

Caffey, John, *381, 1098
Calvi, Nardo, 736
Campbell, J. A., 740
Candardjis, G., 182
Cantril, Simeon T., *751
Caramella, Joseph J., 1100
Carroll, David S., 926
Case, James T., 1088
Cattan, R., 1087
Caviglia Staricco, Enzo, 176
Cerviño, J. M., 176
Chabot, J., 184
Chamberlain, Richard H., *1000
Chapman, Malcolm, 191
Chiat, Harold, 561
Christensen, Wm. R., 746
Christie, James M., 556
Christoforidis, Anthimos, *574
Chu, Florence C. H., 186
Clark, John W., 749
Clark, K. C., 1086
Clayton, Ralph S., Sr., 186
Clément, Robert, 182
Cohen, Beverly S., *819
Cohen, Jerome, 1101
Cohen, Samuel, 378
Coll, Eduardo, 190
Combes-Hamelle, A., 182
Concannon, Joseph P., *855
Conn, Howard F., 736
Cornwell, William S., 179
Costello, Donald P., 750
Courtice, Frederick Colin, 918
Craig, Dwin R., *124
Crohn, Burrill B., 558
Culp, D., 192
Culver, Gordon J., 183
Cupp, Claude M., 190
Currarino, Guido, *392
Czyzewski, W. J. J., 176

Dahlin, David C., *1
Dalicho, Wilhelm Albrecht, 937
Dassel, Paul M., *333
Daves, Marvin L., 181
Davidson, Henry A., 1086
Davis, Lawrence A., *437
Davis, Leonard, 742
de Almeida Prado, A., 380
de Buño, Rosa B., 176
Decker, David G., 746
Define, Domingo, 929
Dennis, John M., 171
Denny, M. B. M., 185
DePaepe, J.-C., 192
de Reus, H. D., 562
Desbaillets, P., 182
Designolle, M., 182
de Venanzi, Francisco, 190
Devens, K., 745
Diamond, Israel, *437
Dietz, W., 193
di Rienzo, S., 378
Dockerty, Malcolm B., *420
Dohan, F. C., 187
Driezen, Samuel, *461
Dulac, G. L., 1087
Dunjic, A., 189
Durant, Thomas M., *224

Eagleton, Mark D., 187
Eberl, J., 178
Ehling, U., 749
Ehrlich, Margarete, 194, 938
Ekman, C.-A., 183
Elkins, H. B., 192
Ellis, Frank, 191
Ellis, Kent, *440, *444
Engle, Robert B., *483, 559
Englund, Sven Erik, 372
Ennuyer, A., 736
Enterline, Philip E., *226
Epstein, Bernard S., 180, *694, *1013
Ettinger, Alice, 926
Ettman, Irving K., 927
Evans, John A., *633
Evans, William A., *1024

Failla, G., *946
Farrell, George E., Jr., *587

Feinberg, S. B., 174, 378, 1093
Feinblatt, Theodore M., 173
Ferguson, Charles F., 925
Ferguson, Edgar A., Jr., 173
Ficq, A., 192
Figiel, Leo S., *662
Figiel, Steven J., *662
Figley, Melvin, 172
Finby, Nathaniel, *234
Fischer, Harry W., 935
Fischer, Robert M., *653
Fischgold, H., 169
Flake, Carlyle G., 925
Flieder, J., 182
Flocks, R. H., 192
Fontaine, R., 177
Forero, José, 190
Fossati, Franco, 379
Fournier, André-M., 930
Frank, L., 556
Fraser, Eleanor R., 559
Friedenfeld, Hans, 174
Fricke, Robert E., 746
Frieberg, Sture, 175
Friedberg, Charles K., 371
Friedman-Barou, Hannah, 379
Friedmann, Asa B., 175
Fullenlove, Tom M., 930
Fulton, Harold, *486

Garcia-Caldéron, J., 1087
Gardner, W. J., 1097
Garland, L. Henry, *902
Gaspar, Max R., 174
Gedda, Luigi, 182
George, Vane P., Jr., 1100
Gerardi, Andrés, 190
Gibson, H. J., 563
Gilbert, M. C., 743
Glass, Bentley, *955
Glauser, Frank, 193
Gluckman, E. C., *30
Goin, Lowell S., 745
Goldberg, M. E., 378
Goldenberg, Ira S., 926
Goldin, Ralph R., 1099
Goldman, Jack A., 558
Golthamer, Charles R., 745
Gombert, H.-J., 740
Goodwin, Willard E., 560
Gough, J., 376
Gould, David M., 181
Grainger, Ronald G., 562
Greenspan, R. H., 1093
Griffiths, Trevor, 169
Grosse-Brockhoff, F., 556
Guérin, M., 938
Gundersen, Gunnar A., 172
Gustafson, P. E., 750
Guy, Roland, 179

Haas, Lewis L., 188
Hadley, Lee A., 1085
Haggard, Mary E., 932
Haidak, G. L., 1093
Halford, H. H., 927
Hallenbeck, George A., *270
Handel, Jack, *643
Hankamp, LaMar J., 740
Hansbrough, Eugene T., 557
Harel, J., 938
Harris, John H., Jr., 193
Harris, P., 1092
Hartman, Albert W., 743
Harvey, Roger A., 188
Hasley, Clyde K., 732
Hathaway, E. A., 750
Hauser, Harry, 349
Hay, Lyle J., 1100
Hays, Robert A., 563
Hellner, Hans, 166
Henley, Catherine, 750
Henry, George W., *698
Herson, Ronald E., 743
Hilbish, Theodore F., *769
Hill, C. Rugh, 749
Hillemand, P., 1087
Hills, William J., 743
Hinkel, C. L., *317
Hinman, Frank, Jr., 1102
Hodge, K. E., 927
Hodgson, John R., *420
Höffken, W., 557
Hollingsworth, John C., 558
Holly, Leland E., II, *1053
Holmes, Barbara E., 918
Holmgren, Alf, 371
Hoover, Walter B., *633
Hope, John W., 739
Hoppe, James O., *137
Hudson, Granville W., 934
Hughes, C. Robert, *54
Hughes, H. A., 747
Humphreys, Charles F., *1061
Hunt, Arthur B., 746
Hunziker, Robert J., *134
Hymans, J., *705

Iannaccone, Guido, 182
Ibayashi, Hiroshi, *812
Isaac, Frank, 928
Isemein, L., 930
Isley, J. K., *705
Ivanoff, John C., 563

Jacobs, Lewis G., 378
Jacobson, George, 172, 559, *631
Jacobson, Harold G., 559
Jacobson, Lillian E., 194
Jacqueline, F., 930
Jenkinson, Edward L., *679

Jennings, W. A., 1102
Jennings, W. Alan, 1102
Jesiotr, M., *492
Johnson, H. Daintree, 742
Johnston, David O., 744
Johnstone, Herbert G., 185
Jordan, Donn L., 749
Junghans, R., 557

Kaiser, Irwin H., 380
Kakehi, Hirotake, *812
Kamieth, H., 932
Karzmark, C. J., *1067
Katz, Isadore, *653
Kaufman, S. A., 175, *725
Kaufman, Seymour A., *685
Kawashima, E., 1097
Kaye, Josse, 185
Keats, Theodore E., *89, 173, 929
Kendig, Tom A., 174
Kenealy, John C., *1061
Kieny, R., 177
Kim, M., 177
Kincaid, Owings W., *420
Kirkpatrick, Rob H., 929
Kligman, Albert M., 916
Kloppe, W., 740
Knauer, Isabelle S., 194
Kniseley, Ralph M., *864
Koch, D., 556
Köhler, Alban, 1088
Krantz, Simon, *780
Kräubig, H., 380
Kreis, Van Allen, 173
Krokowski, E., 749
Kyker, Granvil, 917

Laborde, S., 184
Laborde, Simone, 552
Lake, Fredric D., *617
Lagergren, Curt, 372
Lambling, A., 1087
Lampe, Carl E., 184
Larde-Arthez, C. R., 378
Larsen, Lawrence L., 1097
Lasser, Elliott C., *804
Laughlin, J. S., *961
Laws, John W., 562
Ledoux-Lebard, G., 1087
Lefkovits, Aaron M., 561
Lentino, Walter, 559
Lèques, B., 1096
Le Quesne, L. P., 744
Lester, Jack, 184
Levene, George, 175, 379, *685, 927
Lich, Robert, Jr., 561
Licht, J., *492
Lichtenstein, Louis, 931
Liebner, Edwin J., *283

Lillehei, C. W., 1094
Linden, G., 745
Lipin, Raymond J., 557
Lisa, James R., *266
Lodge, Thomas, 377
Lodin, Herman, 171
Loitman, Bernard S., 561, *633
Loogen, F., 556
Lord, Jere W., Jr., *266
Lorenzo y Losada, H., Jr., 176
Lowman, Robert M., 742
Lusted, Lee B., *1049

Macarini, N., 176
Mack, Robert E., 191
Mackay, N. R., 192
Maddalone, Louis, 747
Maggiolo, J., 176
Maisin, J., 189
Maldague, P., 189
Maloney, W. H., 1093
Malsky, Stanley J., 747
Margulis, Alexander R., *273
Marinelli, L. D., 750
Marshak, Richard H., 558
Martin, James F., *74
Martin, M. Mencer, 191
Marvin, James F., 380
Masnatta, Guillermo, 740
Matthiesen, Don E., *499
Mazzei, Egidio S., 740
McAfee, John G., *213
McChesney, Evan W., *137
McClement, Patricia, *946
McCrea, A. L., 1102
McGee, Harry H., Jr., 375
McGeorge, Chauncey K., *599
McLelland, Robert, *256
Meaney, Thomas F., 563
Melchor, Charles F., 188
Mellors, Robert C., 163
Mendez-Martinez, José, 190
Metzger, J., 169
Meurk, M. L., *961
Miceli, R., 919
Miller, Russell F., *599
Miscall, Laurence, *633
Mitchell, Joseph S., 918
Mitchum, William R., 170
Mody, K. P., 919
Molina, L. F. R., 1096
Montagna, William, 749
Moore, Patrick T., 748
Moore, Richard D., *86
Moore, Thomas C., 740
Morgan, James W., 928
Moseley, J. E., 1096
Moseley, Robert D., Jr., *145
Moss, William T., *850
Motta, G., 375
Movius, Herbert J., 928
Müller-Mohnssen, H., 933
Murison, C. A., 747
Murley, A. H. G., 747
Murphy, Thomas O., *273
Murphy, Walter T., 188
Murray, R. O., 180
Mussio Fournier, J. C., 176
Myerscough, Philip R., 748

Nadelhaft, Jerome, *440, *444, *607
Nägele, E., 934
Nagle, W. William, 739
Nakaidzumi, Masanori, *812
Nakao, Kiku, *812
Nasio, Juan, 741
Neiss, A., 375
Nelson, Gunard A., 746
Nelson, Sidney W., 556, *574
Neuhauser, Edward B. D., *19, *392
Newman, Stanley, 190
Nice, Charles M., Jr., 172, *273, *831, 937
Nichols, Pomeroy, Jr., 1099
Nichols, Russell L., *145
Nicol, M., 933
Nicolai, Charles H., *1061
Nitter, Lorentz, 179, 186
Nixon, H. H., 932
Nixon, W. C., 185
Nordenström, Björn, 172
Norman, Olof, 177
Nussbaum, Arnold, 557

Obata, William G., *39
Ochsner, S., 1095
O'Connor, Sylvester J., 563
O'Donoghue, Don H., 931
Okinaka, Shigeo, *812
Oldfield, D. G., *876
Oliva, Luigi, 1085, 1095
Oliver, R., 191
Olson, Kenneth L., *719
Oppenheimer, Morton J., *224
Ostrum, Herman, *599
Ottoman, Richard E., 178
Oughterson, Ashley W., 165
Owen, Morris, 739

Papagni, Leonardo, 379
Paul, Robert E., *224
Peck, Warner A., Jr., *99
Pendergrass, Eugene P., 193
Penick, R. M., Jr., 1095
Pereira Suarte, R. O., 378
Perlberg, Harry J., 378
Perret, George, 1098
Peterhoff, Rome, 175
Phillips, Ralph, *109
Piazzi, M., 375
Pillsbury, Donald M., 916
Pirson, Herbert S., 183
Pollack, Robert, 191
Pontius, John R., 378
Poppe, Hanno, 166
Poppel, Maxwell H., 559, *508
Poser, Charles M., 565
Posner, A. Charles, 558
Poujol, J., 182
Powers, William E., 375
Praver, Louis L., *73
Provet, Heino, *266
Pugh, David G., *1
Pullman, I., *961

Quéneau, Pierre, 930
Quimby, Edith H., *819, *944

Radke, H., 934
Ramsey, George H., 179
Ranger, I., 744
Raventos, A., 187
Ray, Edward H., Jr., 928
Raymond, Odilon, 179
Read, R. C., 1094
Reeves, R. J., *705
Reid, Cyprian B., 747
Renfer, H. R., 187
Renner, Robert R., *86
Reyersbach, Gertrud C., *392
Richards, A. G., 1091
Richir, C., 182
Riebel, Frank A., *73
Riley, Conrad M., 929
Riemenschneider, P. A., 1091
Ritvo, Max, *587
Rivier, J.-L., 182
Rivkin, L. M., 1094
Rivolta, Giancarlo, 736
Roche, Marcel, 190
Rodko, E. A., 180
Roggenkamp, Milton W., 740
Rose, E., 187
Rosenbaum, Harold D., *681
Rosenblum, David, 557
Rosenkrantz, J. A., *30
Roswit, Bernard, 747
Roth, Merall, *790
Rotthoff, G., 556
Rougeulle, J., 184
Rowe, Caroline W., 932
Rubin, Philip, 739
Ruffin, J. M., *705
Rugh, Roberts, *887
Ruheri, Perez-Tamayo, 926
Ryan, Bernard K., 184

Sabucedo, R. M., 1096
Safrin, Leopold, *328

Salembier, Y., 1096
Salinger, Hans, 379
Salzman, Ferdinand A., 744
Samson, J., 179
Samson, Roger, 179
Santagati, Francesco, 736
Santos, Carlos, 927
Sarif, S. J., 185
Saunders, A. P., *705
Scadding, J. G., 375
Schaede, A., 1094
Scheff, Saul, 379, 927
Schinz, H. R., 937
Schirren, Carl Georg, 935
Schlungbaum, W., 1097
Schmidt, J., 565
Schobinger, Robert, 1100
Schoen, Detlev, 1085
Schoen, Herbert, 1085
Schultze, Gunter, 181
Schwartz, Leonard H., 172
Schwartz, Solomon, 557, *607, *643
Scott, Wendell G., 151, 728, *939
Seaman, William B., 187, 375, 936
Secrest, Pettus G., 174
Sengpiel, Gene W., *289
Servelle, M., 184
Shackford, B. C., 174
Shauffer, Irving A., *587
Sheline, Glenn E., 1102
Shelley, Walter B., 916
Sherlock, Sheila, 565
Sherman, R. S., *961
Sherman, Robert S., 178
Shiers, J. A., *19
Shingleton, W. A., *705
Silver, Maurice L., 1099
Silverman, Frederic N., *451, 1101
Simmonds, Henry T., Jr., *1020
Simon, J., 169
Simpson, Ellen, 173
Singleton, Edward B., 1098
Sjöstedt, Sven, 177
Sklaroff, David M., 190
Sloan, Herbert, 172
Smith, Cyril L., 918
Smith, George W., 1099
Smullen, Willard C., 164
Smyth, Ivor P., 745
Snodgrasse, Richard M., *461
Snow, Walter T., *323
Snow, William, 558
Sobel, Edna H., *392
Soong, Kenneth Y., 178
Soteropoulos, C., 1097
Soule, A. Bradley, Jr., *134
Spies, Tom D., *461
Spinetti-Berti, Mario, 190
Sprunt, William H., III, 563
Stabert, Ch., 933
Stagnara, Pierre, 930
Stansfeld, Alfred, 742
Stanton, Leonard, 193
St. Aubin, Paul M., *864
Stauffer, Herbert M., *224
Stein, Joseph, *508
Steinbach, Howard L., *39, 185
Steinberg, Israel, 184, *234, *1007
Steiner, R. E., 565
Stevenson, Clyde A., *13
St. John, Elmer G., *124
Stoll, Basil A., 564, 748
Stoll, Henry C., 1100
Stone, Robert S., *993
Strittmatter, W. C., 560
Sugimura, Takashi, *812
Sumcad, Bernard, *1053
Süsse, H. J., 934
Sussman, Marcy L., 172
Swoboda, W., 553

Tacher, J., 933
Taveras, Juan M., 565
Taylor, Lauriston S., *983
Temkin, Eugene, 928
Teplick, J. George, *328, *502
Tetewsky, Hyman, *804
Theander, Georg, 174
Thomas, John R., 179
Thompson, M. M., Jr., *46
Thoms, Herbert, 736
Thurn, P., 1094
Todd, E. M., 1097
Tori, G., 919
Tretbar, H. A., 560
Tubiana, M., 938
Tucker, Arthur S., *54
Tuddenham, William J., *116, 193
Turnbull, Andrew, *567
Turner, M. D., 565

Updegrave, W. J., 1091
Udvarhelyi, G. B., 1092

Vallebona, Alessandro, 1085
Van Epps, Eugene F., *471
van den Brenk, H. A. S., *837
v. d. Decken, 936
Varco, R. L., 1094
Vera, Jorge, 190
Vieten, H., 556
Viglioglia, Pablo Alberto, 1099
Villar, Thome George, 925
Virden, C. Edgar, 1073
Vogel, Howard H., Jr., 749
Vollmar, K., 932
Voluter, G., 171, 1093
von Saal, Hermann, 937

Waldbott, G. L., 1100
Waldmann, Hans K., *567
Walker, Geoffrey, 191
Walter, Robert C., 560
Warner, Robert S., 746
Warren, Shields, 165
Warshaw, S. D., *876
Warter, P., 177
Wassner, U. J., 925
Watson, A. Ralph, *13
Webb-Peploe, Hamilton, *461
Weber, Harry M., *906
Weiner, Marvin E., *679
Weissman, Irving, 556
Weitzel, Günter, 935, 936
Wells, Herschel J., 191
Wigby, Palmer E., 179
Wildmann, Bernard P., *599
Williams, A. Justin, 930
Williams, D. Innes, 932
Willis, Robert, *1024
Willmann, K. H., 556
Wise, Burton L., 1100
Wise, Robert E., 744
Wolff, Joan, *887
Woodruff, John H., Jr., 178
Woodward, Helen Q., *109
Woolley, Paul V., Jr., 547
Woolridge, Bart F., 741
Worden, James P., 556
Wright, Hobart, 1097
Wyman, Stanley M., *247

Yarnis, Harry, 558
Yoffey, Joseph Mendel, 918
Young, Barton R., *581

Zaffagnini, E., 919
Zeitel, Bertram E., 559
Zgoda, Adam, 560
Zimmer, E. A., 1088
Zuppinger, A., 187, 556
Zürcher, W., 1093
Zylka, W., 557

VC